#2   OIPE

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RAW SEQUENCE LISTING          DATE: 10/04/2001
PATENT APPLICATION:  US/09/955,999    TIME: 17:22:12

        Input Set : A:\PTO_VSK.txt
        Output Set: N:\CRF3\10042001\I955999.raw
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    4 <120> TITLE OF INVENTION: Signal Transduction Pathway Component Polynucleotides,
Polypeptides,
    5          Antibodies, and Methods Based Thereon
    7 <130> FILE REFERENCE: PT086P1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/955,999
   10 <141> CURRENT FILING DATE: 2001-09-20
   12 <150> PRIOR APPLICATION NUMBER: 60/234,997
   13 <151> PRIOR FILING DATE: 2000-09-25
   15 <160> NUMBER OF SEQ ID NOS: 139
   17 <170> SOFTWARE: PatentIn Ver. 2.0
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   22 <212> TYPE: DNA
   23 <213> ORGANISM: Homo sapiens
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   28 tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg    180
   29 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg    240
   30 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact    300
   31 ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg    360
   32 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc    420
   33 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct    480
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   35 ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg    600
   36 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc    660
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   38 gactctagag gat                                                       733
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   44 <213> ORGANISM: Homo sapiens
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   47 <221> NAME/KEY: Site
   48 <222> LOCATION: (3)
   49 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally ocurring L-amino acids
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   58 <213> ORGANISM: Homo sapiens
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   65 <210> SEQ ID NO: 4
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 82 gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat   180
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132 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga   180
133 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggctttttg gaggcctagg    240
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Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I955999.raw

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145 ggtttgtcct ccggcgaggc cgcatgagcg gcaaccccga tgtcttggag tactacagga	180
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148 ctacttcccg tacattctac ctggtggcca aaactgagca agaaatgcag gtgtgggtgc	360
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157 tgtcttcttc accattgctg gaaagttcct taagttccac cattcaggta gataaaaatc	900
158 aaggttcctt accctgtgga gcaaaagaac tagacattat gtccaacact ccacctcccc	960
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173 gggcttgtgc catgtgtgaa acaggaagc ttggggctca gtttgagttt tttctttttt	1860
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188 tgagtagtca tcctgtctcc ctttcaatag ggatctgaac aggtgttttg atacttgaaa    2760
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193 acaaacactc ccactttata atgaaggcgt catgtcaccc cttcctttac aggtcctggg    3060
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203 aaaccagggc ttcaaactgc tagttcccat ggagggtagt tccctcgtgt ggagcacttg    3660
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218 aagacacgaa gcgacctacc cactgtacag tccacttcac aggatcagct gaatcatgac    4560
219 ctttaaaagt tccgagttga aactgaaggc tctcctcaga cctggctttt tcctcagtcc    4620
220 ctgttcatac catctctgca cccacaatca cactgatttt tcaaattcat tttgtttttg    4680
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228 <213> ORGANISM: Homo sapiens
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232 <222> LOCATION: (2300)
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238 cacaacctgt acacggtcct gcacatcccc catgaccccg tggccctgga ggaacacttc     180
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241 acgctgacgg ccaagaagaa ctatcgggca gatagcaacg ggaacagtat gctctccaat     360
242 caggatgcct tccgcctctg tgtgcctcttc aacttcctgt ctgaggacaa gtaccctctg     420
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    285 <223> OTHER INFORMATION: n equals a,t,g, or c
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY   DATE: 10/04/2001
PATENT APPLICATION: **US/09/955,999**   TIME: 17:22:13

Input Set : **A:\PTO_VSK.txt**
Output Set: **N:\CRF3\10042001\I955999.raw**

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L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
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L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
```

VERIFICATION SUMMARY   DATE: 10/04/2001
PATENT APPLICATION: **US/09/955,999**   TIME: 17:22:13

Input Set : **A:\PTO_VSK.txt**
Output Set: **N:\CRF3\10042001\I955999.raw**

```
L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
```